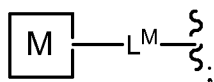


AMENDMENTS TO THE CLAIMS

The following **Listing of Claims** will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. **(Currently amended)** A conjugate comprising a carrier substituted with one or more occurrences of a moiety having the structure:

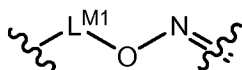


wherein each occurrence of M is independently a ~~biologically active~~ pharmaceutically useful modifier;

the carrier comprises a biodegradable biocompatible polymer selected from polyacetals or polyketals; and

each occurrence of L^M is independently an oxime-containing linker.

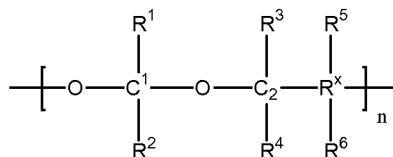
2. **(Original)** The conjugate of claim 1, wherein each occurrence of L^M is independently a moiety having the structure:



wherein each occurrence of L^{M1} is independently a substituted or unsubstituted, cyclic or acyclic, linear or branched C₀₋₁₂alkylidene or C₀₋₁₂alkenylidene moiety wherein up to two non-adjacent methylene units are independently optionally replaced by CO, CO₂, COCO, CONR^{Z1}, OCONR^{Z1}, NR^{Z1}NR^{Z2}, NR^{Z1}NR^{Z2}CO, NR^{Z1}CO, NR^{Z1}CO₂, NR^{Z1}CONR^{Z2}, SO, SO₂, NR^{Z1}SO₂, SO₂NR^{Z1}, NR^{Z1}SO₂NR^{Z2}, O, S, or NR^{Z1}; wherein each occurrence of R^{Z1} and R^{Z2} is independently hydrogen, alkyl, heteroalkyl, aryl, heteroaryl or acyl.

3. **(Original)** The conjugate of claim 2, wherein one or more occurrences of L^{M1} independently comprises a maleimide- or N-hydroxysuccinimide ester-containing crosslinker.

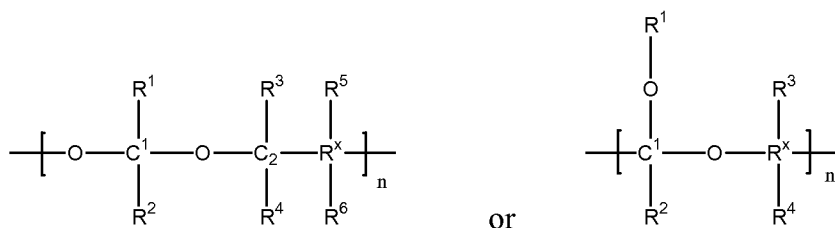
4. **(Original)** The conjugate of claim 3, wherein one or more occurrences of L^{M1} independently comprises a 4-(N-maleimidomethyl)cyclohexane-1-carboxylate, m-maleimidobenzoyl or a 4-(p-maleimidophenyl)butyrate crosslinker.
5. **(Original)** The conjugate of claim 1, wherein one or more occurrences of M comprises, or is attached to the carrier through, a biodegradable bond.
6. **(Original)** The conjugate of claim 4, wherein the biodegradable bond is selected from the group consisting of acetal, ketal, amide, ester, thioester, enamine, imine, imide, dithio, and phosphoester bond.
7. **(Cancelled).**
8. **(Cancelled).**
9. **(Cancelled).**
10. **(Cancelled).**
11. **(Original)** The conjugate of claim 1, wherein the carrier is a biodegradable biocompatible polyacetal wherein at least a subset of the polyacetal repeat structural units have the following chemical structure:



wherein for each occurrence of the n bracketed structure, one of R¹ and R² is hydrogen, and the other is a biocompatible group and includes a carbon atom covalently attached to C¹; R^x includes a carbon atom covalently attached to C²; n is an integer; each occurrence of R³, R⁴, R⁵ and R⁶ is a biocompatible group and is independently hydrogen or an organic moiety; and for

each occurrence of the bracketed structure n, at least one of R¹, R², R³, R⁴, R⁵ and R⁶ comprises a carbonyl group suitable for oxime formation.

12. **(Original)** The conjugate of claim 1, wherein the carrier is a biodegradable biocompatible polyketal wherein at least a subset of the polyketal repeat structural units have the following chemical structure:



wherein each occurrence of R¹ and R² is a biocompatible group and includes a carbon atom covalently attached to C¹; R^x includes a carbon atom covalently attached to C²; n is an integer; each occurrence of R³, R⁴, R⁵ and R⁶ is a biocompatible group and is independently hydrogen or an organic moiety; and for each occurrence of the bracketed structure n, at least one of R¹, R², R³, R⁴, R⁵ and R⁶ comprises a carbonyl group suitable for oxime formation.

13. **(Cancelled).**

14. **(Currently amended)** The conjugate of claim 12, wherein one or more occurrence of M is selected from the group consisting of proteins, antibodies, antibody fragments, peptides, antineoplastic drugs, hormones, cytokines, enzymes, enzyme substrates, receptor ligands, lipids, nucleotides, nucleosides, metal complexes, cations, anions, amines, heterocycles, heterocyclic amines, aromatic groups, aliphatic groups, intercalators, antibiotics, antigens, immunomodulators, and antiviral compounds.

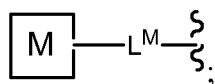
15. **(Cancelled).**

16. **(Cancelled).**

17. **(Cancelled).**

18. **(Cancelled).**
19. **(Original)** The conjugate of claim 1, wherein the conjugate is water-soluble.
20. **(Currently amended)** The conjugate of claim 1, wherein the conjugate comprises a ~~biologically active~~ pharmaceutically useful modifier and a detectable label.
21. **(Cancelled).**
22. **(Cancelled).**
23. **(Cancelled).**
24. **(Cancelled).**
25. **(Cancelled).**
26. **(Cancelled).**
27. **(Cancelled).**
28. **(Cancelled).**
29. **(Cancelled).**
30. **(Cancelled).**
31. **(Cancelled).**

32. **(Withdrawn, Currently Amended)** A method for preparing a conjugate comprising a carrier substituted with one or more occurrences of a moiety having the structure:



wherein each occurrence of M is independently a ~~a biologically active~~ pharmaceutically useful modifier;

the carrier comprises a biodegradable biocompatible polymer selected from polyacetals or polyketals; and

each occurrence of L^{M} is independently an oxime-containing linker;

said method comprising steps of:

providing a carrier;

providing one or more pharmaceutically useful modifiers;

providing one or more compounds having the structure: $\text{R}^{\text{N1}}\text{R}^{\text{N2}}\text{N}-\text{O}-\text{L}^1$; wherein R^{N1} and R^{N2} are independently hydrogen, an aliphatic, alicyclic, heteroaliphatic, heterocyclic, aryl or heteroaryl moiety, or a nitrogen protecting group, or R^{N1} and R^{N2} , taken together, form a substituted or unsubstituted alicyclic, aryl or heteroaryl moiety; and each occurrence of L^1 is independently an aliphatic, alicyclic, heteroaliphatic, heterocyclic, aryl or heteroaryl moiety comprising a functional group adapted for covalent binding to the modifier; and

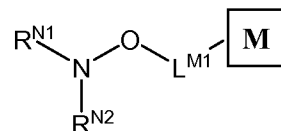
reacting the one or more compounds of structure $\text{R}^{\text{N1}}\text{R}^{\text{N2}}\text{N}-\text{O}-\text{L}^1$ with the carrier and the one or more modifiers under suitable conditions so that at least one $-\text{O}-\text{NR}^{\text{N1}}\text{R}^{\text{N2}}$ moiety is covalently attached to the carrier via an oxime linkage, thereby generating the conjugate.

33. **(Withdrawn)** A method for preparing the conjugate according to claim 1:

said method comprising steps of:

providing a carrier;

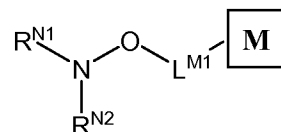
providing one or more compounds having the structure:



wherein L^{M1} is a substituted or unsubstituted, cyclic or acyclic, linear or branched C_{0-12} alkylidene or C_{0-12} alkenylidene moiety wherein up to two non-adjacent methylene units are

independently optionally replaced by CO, CO₂, COCO, CONR^{Z1}, OCONR^{Z1}, NR^{Z1}NR^{Z2}, NR^{Z1}NR^{Z2}CO, NR^{Z1}CO, NR^{Z1}CO₂, NR^{Z1}CONR^{Z2}, SO, SO₂, NR^{Z1}SO₂, SO₂NR^{Z1}, NR^{Z1}SO₂NR^{Z2}, O, S, or NR^{Z1}; wherein each occurrence of R^{Z1} and R^{Z2} is independently hydrogen, alkyl, heteroalkyl, aryl, heteroaryl or acyl; and R^{N1} and R^{N2} are independently hydrogen, an aliphatic, alicyclic, heteroaliphatic, heterocyclic, aryl or heteroaryl moiety, or a nitrogen protecting group, or R^{N1} and R^{N2}, taken together with the nitrogen atom to which they are attached, form a substituted or unsubstituted heterocyclic or heteroaryl moiety; and

reacting the carrier with the one or more compounds of structure:

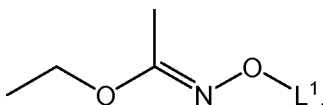


under suitable conditions so that at least one –O-NR^{N1}R^{N2} moiety is covalently attached to the carrier via an oxime linkage, thereby generating the conjugate.

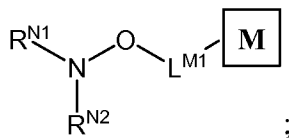
34. **(Withdrawn)** The method of claim 32 or 33, wherein R^{N1} and R^{N2} are each hydrogen.

35. **(Withdrawn)** The method of claim 32, wherein in the one or more compounds of structure R^{N1}R^{N2}N-O-L¹; at least one of R^{N1} and R^{N2} is a nitrogen protecting group; and the method further comprises the step of hydrolyzing the one or more compounds having the structure R^{N1}R^{N2}N-O-L¹ to form one or more compounds having the structure H₂N-O-L¹ prior to reacting with the carrier.

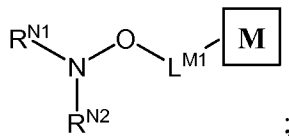
36. **(Withdrawn)** The method of claim 35, wherein in the one or more compounds of structure R^{N1}R^{N2}N-O-L¹, R^{N1}R^{N2}N- has the structure CH₃CH₂OC(CH₃)=N-; and the one or more compounds have the following structure:



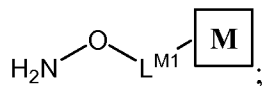
37. **(Withdrawn)** The method of claim 33, wherein in the one or more compounds of structure



at least one of R^{N1} and R^{N2} is a nitrogen protecting group; and the method further comprises the step of hydrolyzing the one or more compounds having the structure:

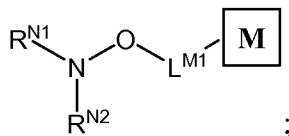


to form one or more compounds having the structure:

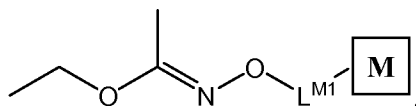


prior to reacting with the carrier.

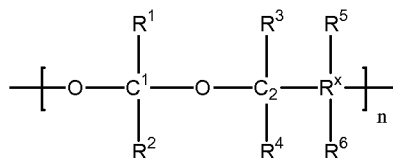
38. **(Withdrawn)** The method of claim 37, wherein in the one or more compounds of structure:



$\text{R}^{\text{N1}}\text{R}^{\text{N2}}\text{N}-$ has the structure $\text{CH}_3\text{CH}_2\text{OC}(\text{CH}_3)=\text{N}-$; and the one or more compounds have the following structure:



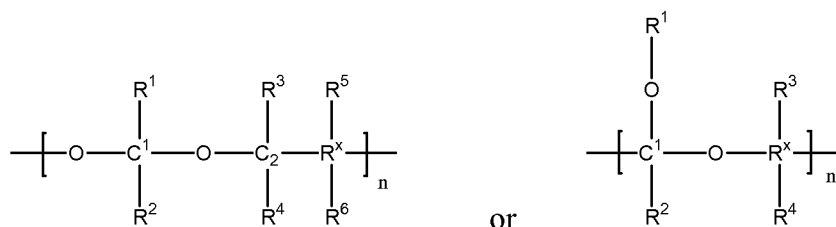
39. **(Withdrawn)** The method of claim 32 or 33, wherein the carrier is a biodegradable biocompatible polyacetal wherein at least a subset of the polyacetal repeat structural units have the following chemical structure:



wherein for each occurrence of the n bracketed structure, one of R^1 and R^2 is hydrogen, and the other is a biocompatible group and includes a carbon atom covalently attached to C^1 ; R^x

includes a carbon atom covalently attached to C²; n is an integer; each occurrence of R³, R⁴, R⁵ and R⁶ is a biocompatible group and is independently hydrogen or an organic moiety; and for each occurrence of the bracketed structure n, at least one of R¹, R², R³, R⁴, R⁵ and R⁶ comprises an aldehyde moiety.

40. **(Withdrawn)** The method of claim 32 or 33, wherein the carrier is a biodegradable biocompatible polyketal wherein at least a subset of the polyketal repeat structural units have the following chemical structure:



wherein each occurrence of R¹ and R² is a biocompatible group and includes a carbon atom covalently attached to C¹; R^x includes a carbon atom covalently attached to C²; n is an integer; each occurrence of R³, R⁴, R⁵ and R⁶ is a biocompatible group and is independently hydrogen or an organic moiety; and for each occurrence of the bracketed structure n, at least one of R¹, R², R³, R⁴, R⁵ and R⁶ comprises an aldehyde moiety.

41. **(Original)** A composition comprising the conjugate of claim 1 and a pharmaceutically suitable carrier or diluent.

42. **(Previously presented)** A composition comprising a conjugate of claim 1 associated with an effective amount of a therapeutic agent; wherein the therapeutic agent is incorporated into and released from said conjugate matrix by degradation of the conjugate matrix or diffusion of the agent out of the matrix over a period of time.

43. **(Currently amended)** The composition of claim 42 wherein said conjugate is further associated with a diagnostic ~~agent~~ label.

44. **(Withdrawn)** A method of administering to a patient in need of treatment, comprising administering to the subject an effective amount of a suitable therapeutic agent; wherein said therapeutic agent is associated with and released from a conjugate of claim 1 by degradation of the conjugate matrix or diffusion of the agent out of the matrix over a period of time.

45. **(Withdrawn)** The method of claim 44 wherein said therapeutic agent is locally delivered by implantation of said conjugate matrix incorporating the therapeutic agent.

46. **(Withdrawn)** The method of claim 44 wherein said therapeutic agent is selected from the group consisting of: vitamins, anti-AIDS substances, anti-cancer substances, antibiotics, immunosuppressants, anti-viral substances, enzyme inhibitors, neurotoxins, opioids, hypnotics, anti-histamines, lubricants, tranquilizers, anti-convulsants, muscle relaxants and anti-Parkinson substances, anti-spasmodics and muscle contractants including channel blockers, miotics and anti-cholinergics, anti-glaucoma compounds, anti-parasite and/or anti-protozoal compounds, modulators of cell-extracellular matrix interactions including cell growth inhibitors and anti-adhesion molecules, vasodilating agents, inhibitors of DNA, RNA or protein synthesis, anti-hypertensives, analgesics, anti-pyretics, steroidal and non-steroidal anti-inflammatory agents, anti-angiogenic factors, anti-secretory factors, anticoagulants and/or antithrombotic agents, local anesthetics, ophthalmics, prostaglandins, anti-depressants, anti-psychotic substances, anti-emetics, imaging agents.

47. **(Withdrawn, Currently Amended)** The method of claim 44 further comprising administering with the therapeutic agent additional ~~biologically active~~ pharmaceutically useful compounds selected from the group consisting of vitamins, anti-AIDS substances, anti-cancer substances, antibiotics, immunosuppressants, anti-viral substances, enzyme inhibitors, neurotoxins, opioids, hypnotics, anti-histamines, lubricants, tranquilizers, anti-convulsants, muscle relaxants and anti-Parkinson substances, anti-spasmodics and muscle contractants including channel blockers, miotics and anti-cholinergics, anti-glaucoma compounds, anti-parasite and/or anti-protozoal compounds, modulators of cell-extracellular matrix interactions including cell growth inhibitors and anti-adhesion molecules, vasodilating agents,

inhibitors of DNA, RNA or protein synthesis, anti-hypertensives, analgesics, anti-pyretics, steroidal and non-steroidal anti-inflammatory agents, anti-angiogenic factors, anti-secretory factors, anticoagulants and/or antithrombotic agents, local anesthetics, ophthalmics, prostaglandins, anti-depressants, anti-psychotic substances, anti-emetics, imaging agents, and combination thereof.

48. **(Withdrawn)** The method of claim 44 wherein said conjugate further comprises or is associated with a diagnostic label.

49. **(Withdrawn)** The method of claim 48 wherein said diagnostic label is selected from the group consisting of: radiopharmaceutical or radioactive isotopes for gamma scintigraphy and PET, contrast agent for Magnetic Resonance Imaging (MRI), contrast agent for computed tomography, contrast agent for X-ray imaging method, agent for ultrasound diagnostic method, agent for neutron activation, moiety which can reflect, scatter or affect X-rays, ultrasounds, radiowaves and microwaves and fluorophores.

50. **(Withdrawn)** The method of claim 48 wherein said conjugate is further monitored *in vivo*.

51. **(Withdrawn)** A method of administering a conjugate of claim 1 to an animal, comprising preparing an aqueous formulation of said conjugate and parenterally injecting said formulation in the animal.

52. **(Cancelled).**

53. **(Cancelled).**

54. **(Withdrawn)** A method of administering a conjugate of claim 1 to an animal, comprising preparing an implant comprising said conjugate, and implanting said implant into the animal.

55. **(Withdrawn)** The method of claim 54, wherein said implant is a biodegradable gel matrix.
56. **(Withdrawn, currently amended)** A method for treating of an animal in need thereof, comprising administering a conjugate as in claim 51 or 54, wherein said conjugate is associated with a ~~biologically active~~ pharmaceutically useful component.
57. **(Cancelled).**
58. **(Withdrawn, Currently amended)** The method of claim 51, wherein the ~~biologically active~~ pharmaceutically useful component is a gene vector.
59. **(Withdrawn)** A method for eliciting an immune response in an animal, comprising administering a conjugate as in claim 51 or 54, wherein said conjugate comprises an antigen modifier.
60. **(Cancelled).**
61. **(Cancelled).**
62. **(Cancelled).**